### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization International Bureau



(43) International Publication Date 24 January 2002 (24.01.2002)

**PCT** 

### (10) International Publication Number WO 02/06038 A3

(51) International Patent Classification7: 71/02. B44C 3/04

C08L 63/00,

(21) International Application Number: PCT/EP01/08404

(25) Filing Language:

19 July 2001 (19.07.2001)

(26) Publication Language:

(22) International Filing Date:

English English

(30) Priority Data:

19 July 2000 (19.07.2000) EP

00202548.4

- (71) Applicant: KONINKLIJKE PHILIPS ELECTRON-ICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors: KLOOSTERBOER, Johan, G.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). TOUWSLAGER, Fredericus, J.; Prof. Holstlaan 6, NL-5656 AA Eindhoven

(NL). VERSTEGEN, Emile, J., K.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

- (74) Agent: DEGUELLE, Wilhelmus, H., G.; Internationaal Octrooibureau B.V., Prof Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): CN, JP, KR.
- (84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

### Published:

- with international search report
- (88) Date of publication of the international search report: 10 May 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF MANUFACTURING A REPLICA AS WELL AS A REPLICA OBTAINED BY CARRYING OUT A UV LIGHT-INITIATED CATIONIC POLYMERIZATION

(57) Abstract: The invention relates to a method of manufacturing a replica, which method comprises the provision of a bondable resin composition between a mold and a substrate or a blank, carrying out a curing treatment and removing the replica thus manufactured from the mold, which replica comprises the substrate and the reproduction of the mold provided thereon. The invention further relates to a replica obtained by carrying out a UV light-initiated cationic polymerization.

### INTERNATIONAL SEARCH REPORT

itional Application No PCT/EP 01/08404

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO8L63/00 CO8L C08L71/02 B44C3/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system tollowed by classification symbols) IPC 7 C08L B44C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A US 4 890 905 A (VAN ROSMALEN GERARD E ET 1 AL) 2 January 1990 (1990-01-02) cited in the application claims Α PATENT ABSTRACTS OF JAPAN vol. 013, no. 278 (C-611). 26 June 1989 (1989-06-26) & JP 01 075580 A (NITTO ELECTRIC IND CO LTD), 22 March 1989 (1989-03-22) abstract Α PATENT ABSTRACTS OF JAPAN 1 vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 140110 A (UENO HIROSHI), 25 May 1999 (1999-05-25) abstract Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone \*L\* document which may throw doubts on priority daim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed in the art "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 12 December 2001 11/01/2002 Name and mailing address of the ISA Ruropean Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo n!, Fax: (+31-70) 340-3016 Authorized officer

1

Deraedt, G

## INTERNATIONAL SEARCH REPORT

in ational Application No
PCT/EP 01/08404

C.(Continue	Mion) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/EP 01/08404	
Calegory *		Relevant to claim No.	
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 411 (P-779), 31 October 1988 (1988-10-31) & JP 63 148444 A (HITACHI CHEM CO LTD), 21 June 1988 (1988-06-21) abstract	1	
	DATABASE WPI Section Ch, Week 199519 Derwent Publications Ltd., London, GB; Class A32, AN 1995-144220 XP002185386 & JP 07 068568 A (OLYMPUS OPTICAL CO LTD), 14 March 1995 (1995-03-14) abstract	1	
	GB 1 388 536 A (RECH ARTISTIQUES GRAPH ET) 26 March 1975 (1975-03-26) page 5, line 49 - line 70; claims	1	
	HONG-BING WANG ET AL: "ASSESSMENT OF RESIDUAL STRESSES DURING CURE AND COOLING OF EPOXY RESINS" POLYMER ENGINEERING & SCIENCE, SOCIETY OF PLASTICS ENGINEERS, US, vol. 35, no. 23, 15 December 1995 (1995-12-15), pages 1895-1898, XPO00583156 ISSN: 0032-3888 page 1898		
	US 3 748 202 A (IISAKA Y ET AL) 24 July 1973 (1973-07-24) column 5; line 6 -column 7, line 58; claims	1	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

In ational Application No PCT/EP 01/08404

-		•		PCI/EF	017 08404
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4890905	A	02-01-1990	NL AU AU BR CCN CCS DEPPSSKHUJPPRRGGUSU YU	8501665 A 8502225 A 56299 T 5850386 A 585770 B2 5850486 A 8602670 A 1263747 A1 86104346 A ,B 8604233 A2 3662349 D1 3673885 D1 0206396 A1 0206397 A1 555805 D0 8708267 A1 92091 A 44110 A2 62000901 A 1822533 C 5035485 B 62003438 A 9410944 B1 50391 G 52690 G 2037860 C1 4638471 A 98086 A1	02-01-1987 02-01-1987 15-09-1990 18-12-1986 22-06-1989 18-12-1986 03-02-1987 05-12-1989 01-07-1987 27-05-1987 12-07-1989 20-04-1989 11-10-1990 30-12-1986 30-12-1986 01-10-1987 16-12-1987 22-11-1991 28-01-1988 06-01-1987 10-02-1994 26-05-1993 09-01-1987 19-11-1994 23-08-1991 31-08-1990 19-06-1995 20-01-1987 31-12-1989
JP 01075580	A	22-03-1989	JP JP	1894752 C 6023344 B	26-12-1994 30-03-1994
JP 11140110	A	25-05-1999	NONE		
JP 63148444	Α	21-06-1988	NONE		
JP 7068568	A	14-03-1995	NONE		
GB 1388536	A	26-03-1975	FR BE DD DE IT JP JP JP	2177481 A1 796538 A1 106982 A5 2311863 A1 983525 B 940828 C 48102859 A 53016410 B 7303188 A	09-11-1973 02-07-1973 12-07-1974 13-09-1973 11-11-1974 20-02-1979 24-12-1973 01-06-1978 12-09-1973
US 3748202	A	24-07-197	3 JP CH DE DE FR GB US	49000447 B 527071 A 2018699 A1 2065877 A1 2043210 A5 1298901 A 4001062 A	08-01-1974 31-08-1972 05-11-1970 26-08-1976 12-02-1971 06-12-1972 04-01-1977

BEST AVAILABLE COPY